Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1 – 8: Cancelled

9. (New) A device for the UV treatment of fluids flowing in a flow channel, comprising;

a plurality of cylindrical low-pressure mercury UV emitters (3-8) that are arranged in groups in said flow channel, wherein longitudinal axes of said UV emitters (3-8) are disposed substantially parallel to one another such that the UV emitters of a given group are disposed in a plane;

at least one elongated sensor arrangement (15) adapted to monitor an operating state of said UV emitters (3-8), wherein said at least one elongated sensor arrangement (15) is spaced from and parallel to one of said groups of said UV emitters, wherein said at least one elongated sensor arrangement (15) extends substantially transverse to said longitudinal axes of said UV emitters (3-8) of the adjacent group, and wherein said at least one elongated sensor arrangement (15) is provided with a separate UV sensor (18) for each UV emitter (3-8) of that group; and

at least one unit (10) connected with said at least one elongated sensor arrangement (15) and adapted to control and/or regulate said UV emitters (3-8).

10. (New) A device according to claim 9, wherein said at least one elongated sensor arrangement (15) is disposed in a quartz tube.

11. (New) A device according to claim 9, wherein said UV emitters (3-8) are disposed transverse to a direction of flow of said fluids in said flow channel.

12. (New) A device according to claim 9, wherein said at least one elongated sensor arrangement (15) is disposed transverse to a direction of flow of said fluids in said flow channel.

13. (New) A device according to claim 9, wherein said at least one elongated sensor arrangement (15) is provided with a support plate (17) that carries said UV sensors (18).

14. (New) A device according to claim 13, wherein said at least one elongated arrangement (15) is disposed between two groups of said UV emitters (3-8), wherein said support plate (17) carries said UV sensors (18) on two oppositely facing flat sides thereof, and wherein said UV sensors (18) of a given flat side of said support plate (17) face a respective one of said groups of UV emitters (3-8).

15. (New) A device according to claim 9, wherein each of said UV sensors (18) is provided with a current/voltage transformer and a digital module, and wherein said UV sensors (18) of said at least one elongated sensor arrangement (15) communicate with said at least one unit (10) via a common data bus.

16. (New) A device according to claim 9, wherein at least one guide sensor (14) is disposed externally of said at least one elongated sensor arrangement (15), and wherein said at least one guide sensor (14) detects UV radiation emitted by said UV emitters (3-8), relative to which radiation individual ones of said UV sensors (18) are adapted to be calibrated.